



IS4

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**POWER AMPLIFIER PENTODE**

MINIATURE TYPE

Filament	Coated	
Voltage	1.4	d-c volts
Current	0.1	amp.
Maximum Overall Length		2-1/8"
Maximum Seated Height		1-7/8"
Maximum Diameter		3/4"
Bulb		T-5-1/2
Base ^Δ		Miniature Button 7-Pin
Pin 1 - Filament -		Pin 5 - Filament -
Pin 2 - Plate		Pin 6 - Plate
Pin 3 - Grid		Pin 7 - Filament +
Pin 4 - Screen		
Mounting Position		Any



BOTTOM VIEW (7AV)

AMPLIFIER

Plate Voltage				90 max. volts
Screen Voltage				67.5 max. volts
Total Max.-Signal Cathode Current				11 max. ma.
Total Zero-Signal Cathode Current				9 max. ma.
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>				
Filament	1.4	1.4	1.4	d-c volts
Plate	45	67.5	90	volts
Screen	45	67.5	67.5	volts
Grid	-4.5	-7	-7	volts
Peak A-F Grid Voltage	4.5	7	7	volts
Zero-Signal Plate Cur.	3.8	7.2	7.4	ma.
Zero-Signal Screen Cur.	0.8	1.5	1.4	ma.
Plate Res. (Approx.)	0.1	0.1	0.1	megohm
Transcond.	1250	1550	1575	μmhos
Load Res.	8000	5000	8000	ohms
Total Harmonic				
Distortion	12	10	12	%
Max.-Sig. Power Output	65	180	270	mW

^Δ The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.

Jan. 30, 1942

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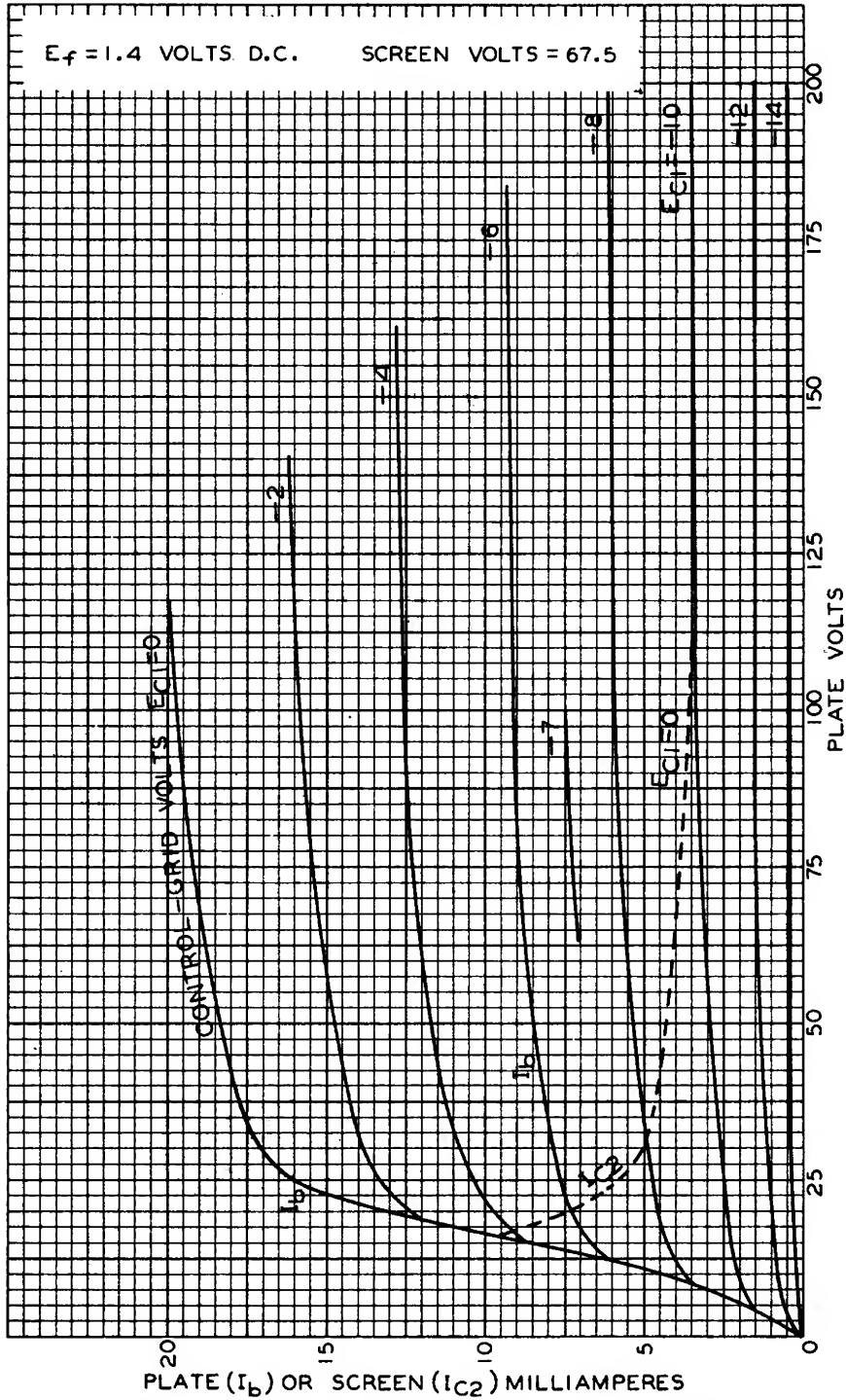
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AVERAGE PLATE CHARACTERISTICS



JAN. 26, 1942

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92C-6157RI

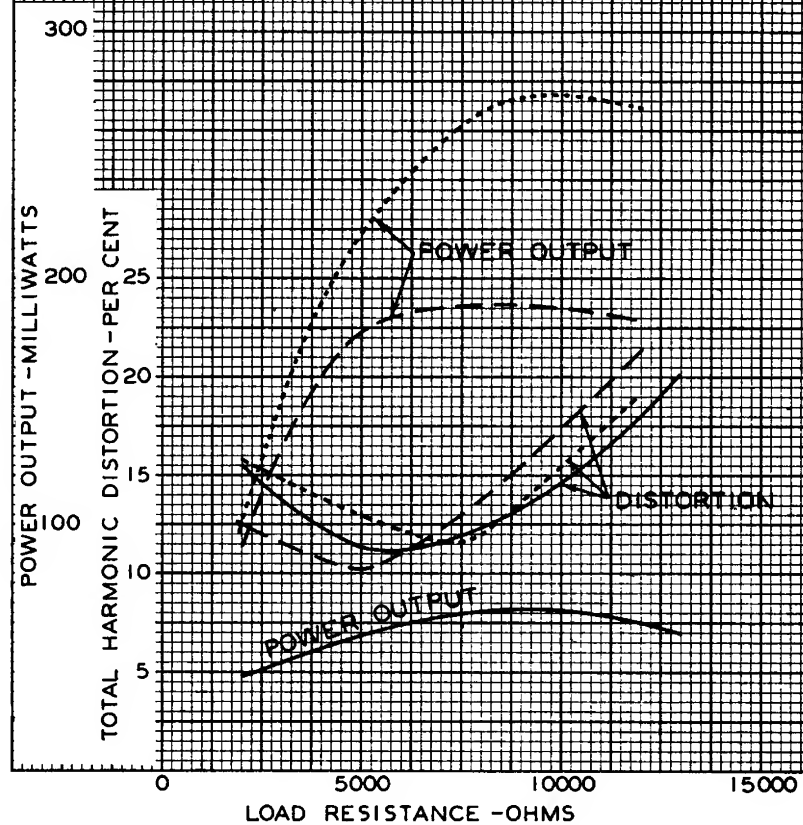


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OPERATION CHARACTERISTICS

$E_f = 1.4$ VOLTS D.C.

CURVE	PLATE VOLTS	SCREEN VOLTS	GRID VOLTS	SIGNAL VOLTS RMS
—	45	45	-4.5	3.2
- - -	67.5	67.5	-7	4.95
.....	90	67.5	-7	4.95



MAY 8, 1941

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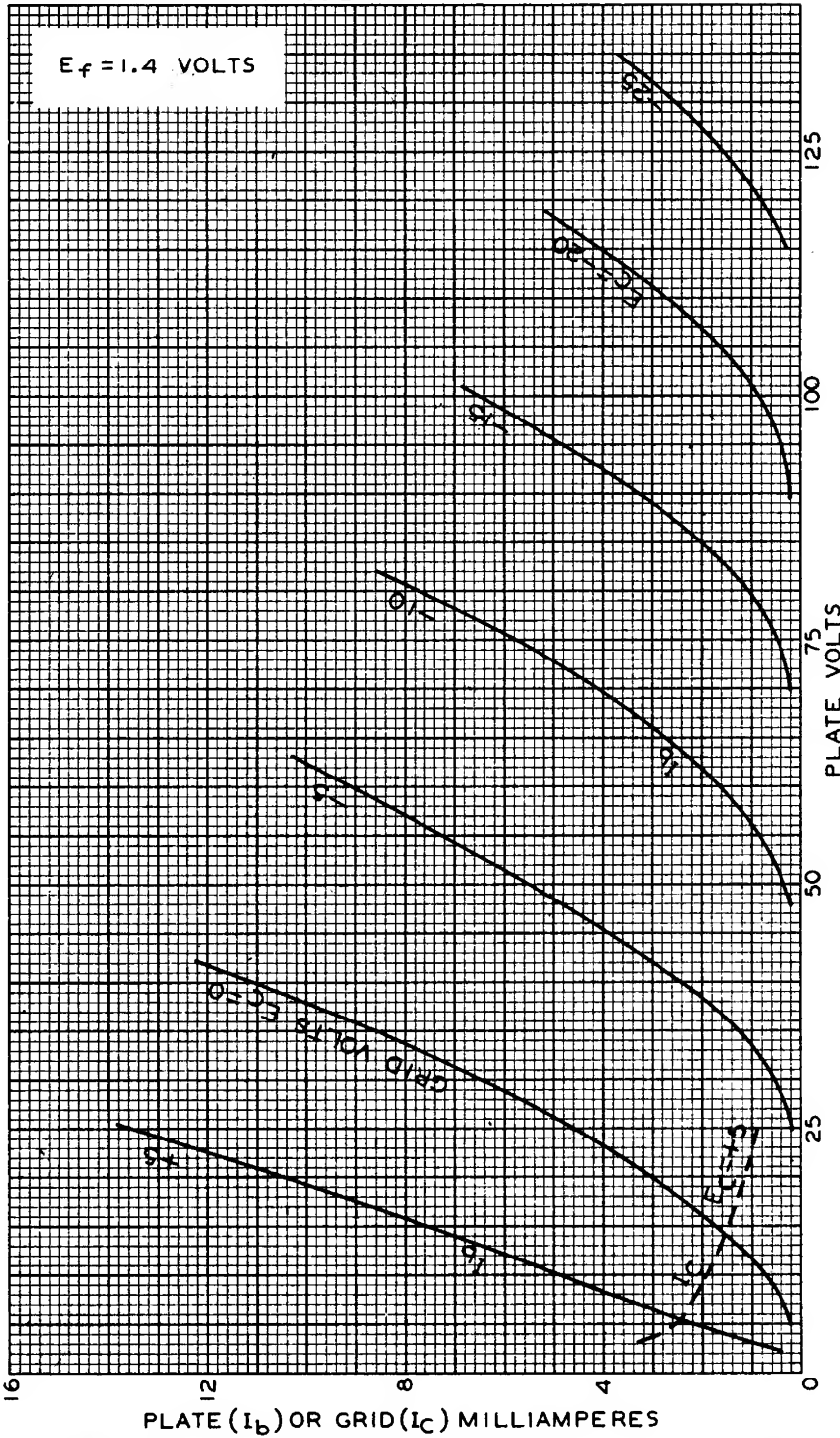
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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



DEC. 26, 1941

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92C-6348